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| Print Format | |
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[Abstract] [PDF Full-Text (376 KB)] **IEEE CNF**

3 Materials technology for perfluorinated graded-index polymer optical Blyler, L.L.; White, W.R.; Ratnagiri, R.;

Optical Communication, 2001. ECOC '01. 27th European Conference on , Volun 2001

Page(s): 64 -65 vol.1

[Abstract] [PDF Full-Text (351 KB)] IEEE CNF

4 Plastic fibers

Yasuhiro, K.;

Optical Fiber Communication. OFC 97., Conference on , 16-21 Feb 1997

Page(s): 325



5 High-bandwidth, low-loss graded-index polymer optical fiber for near infrared use

Ishigure, T.; Nihei, E.; Koike, Y.;

Optical Communication, 1998. 24th European Conference on , Volume: 1 , 20-2

1998

Page(s): 231 -232 vol.1

[Abstract] [PDF Full-Text (168 KB)] IEEE CNF

6 POF is overcoming silica in bit rate

Ishigure, T.; Koike, Y.;

Optical Fiber Communication Conference and Exhibit, 2001. OFC 2001, 2001

Page(s): ThC7 -T1-3 vol.4

[Abstract] [PDF Full-Text (236 KB)] IEEE CNF

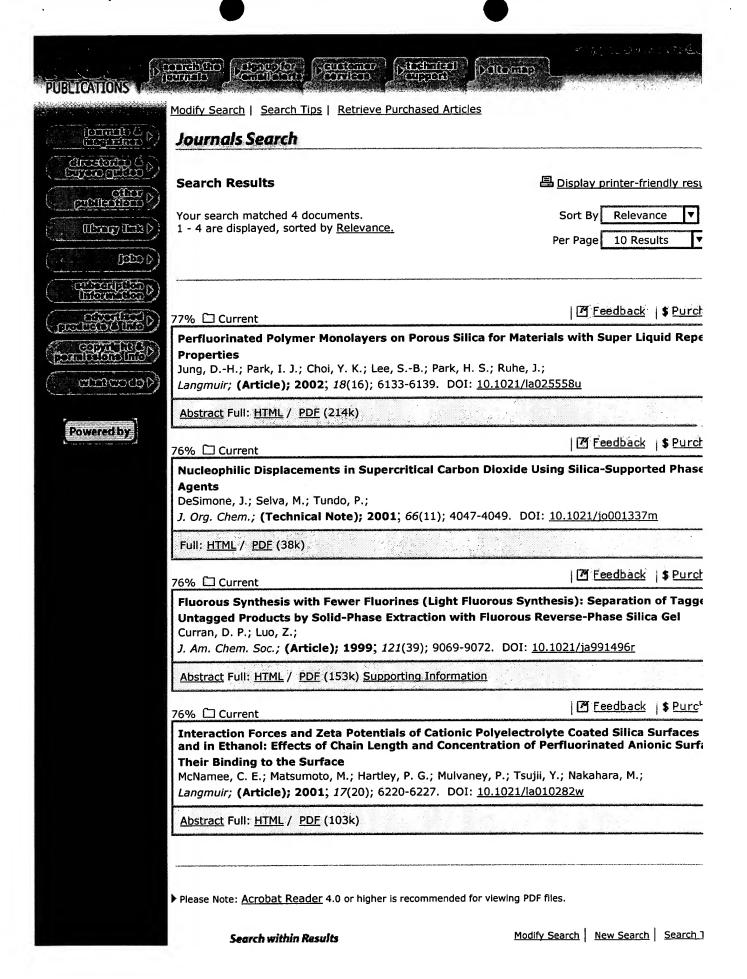
7 Recent status of perfluorinated graded index plastic optical fiber and novel termination method

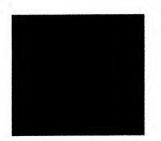
Watanabe, Y.; Onishi, T.; Tsukamoto, T.; Matsuyama, Y.; Optical Fiber Communication Conference and Exhibit, 2001. OFC 2001, 2001 Page(s): ThC6 -T1-3 vol.4

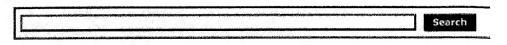
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J. Am. Chem. Soc., 121 (39), 9069 -9072, 1999. 10.1021/ja991496r S0002-7863(99)01496-1 Web Release Date: September 15, 1999

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Fluorous Synthesis with Fewer Fluorines (Light Fluorous Synthesis): Separation of Tagged from Untagged Products by Solid-Phase Extraction with Fluorous Reverse-Phase Silica Gel

Dennis P. Curran* and Zhiyong Luo

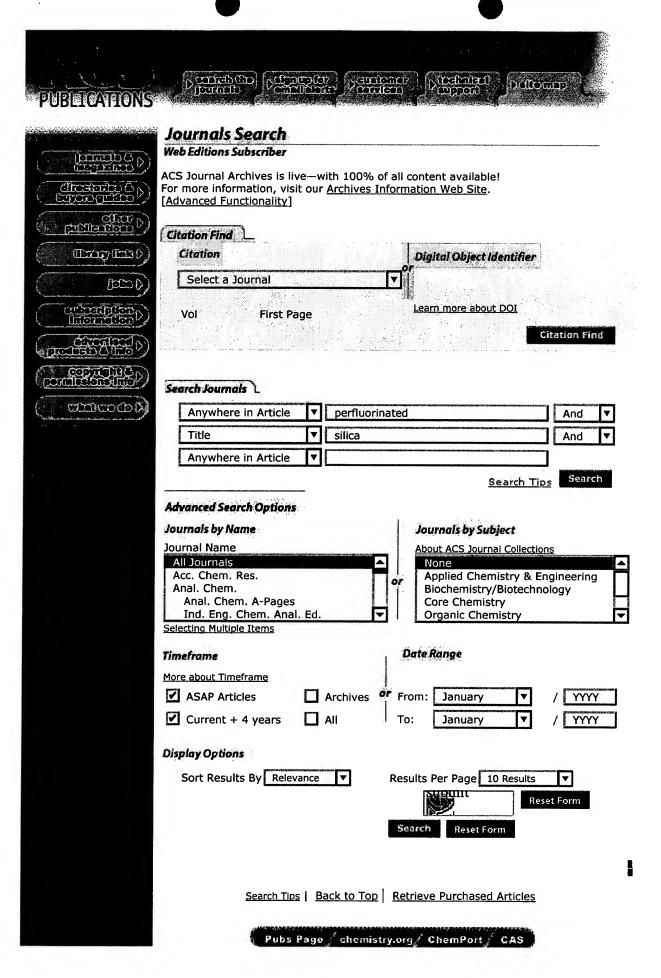
Contribution from the Department of Chemistry and Center for Combinatorial Chemistry, University of Pittsburgh, Pittsburgh, Pennsylvania 15260

Received May 6, 1999

Abstract:

Fluorous synthesis involves tagging an organic substrate with a fluorinated tag for the purposes of separation. To date, techniques of fluorous synthesis have relied on liquid-liquid extractions. This paper applies a simple solid-liquid extraction procedure over fluorous reverse-phase silica gel (silica with a fluorocarbon bonded phase) for use in fluorous synthesis. Four amino acids were tagged on nitrogen with the C₉F₁₉CO- group, and the resulting acids were coupled in a parallel experiment with an excess of four amines. The resulting 16 crude fluorous amide products were separated from all the coupling reagents and excess amine by two-stage filtration through fluorous silica. In 15 of the 16 cases, the products were isolated in good to excellent yield and purity. All of the products are soluble in organic solvents and none is expected to have any significant solubility in fluorous solvents, so the experiment dramatically illustrates the advantages of the solid-liquid extraction over the liquid-liquid extraction. Future prospects for application of fluorous silica are briefly discussed.

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ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
L3
     1987:555099 CAPLUS
AN
     107:155099
DN
     Investigation by pyrolysis-gas chromatography of the composition of
ΤI
     multicomponent polymeric microheterogeneous systems based on some vinyl
     monomers
     Shadrina, N. E.; Dmitrenko, A. V.; Pavlova, V. F.; Ivanchev, S. S.
ΑU
     Plastpolym. Okhta Res. Prod. Assoc., Leningrad, USSR
CS
     Journal of Chromatography (1987), 404(1), 183-95
SO
     CODEN: JOCRAM; ISSN: 0021-9673
     Journal
DT
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LA
     ANSWER 1 OF 7 CAPLUS COPYRIGHT 2003 ACS
L5
     2002:594961 CAPLUS
ΑN
DN
     137:142236
     Preparation and use of an impregnating, cleaning fluid based on a
TI
     polysiloxane network, especially for printing rolls
     Nass, Ruediger; Jonschker, Gerhard
ΙN
     Nanogate Technologies G.m.b.H., Germany
PΑ
     PCT Int. Appl., 32 pp.
SO
     CODEN: PIXXD2
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     DE 10106342
                       Α1
                                           DE 2001-10119825 20010423
     DE 10119825
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     DE 2001-10117138
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     DE 2001-10119825 A
                            20010423
     ANSWER 2 OF 7 CAPLUS COPYRIGHT 2003 ACS
L5
     2000:681835 CAPLUS
ΑN
     133:366084
DN
ΤI
     Transformation of MTBE over a solid acid catalyst
     Richards, Sarah A.; Zhang, Wei-xian
ΑU
     Department of Civil and Environmental Engineering, Lehigh University,
CS
     Bethlehem, PA, 18015, USA
     Chemical Oxidation and Reactive Barriers: Remediation of Chlorinated and
SO
     Recalcitrant Compounds, International Conference on Remediation of
     Chlorinated and Recalcitrant Compounds, 2nd, Monterey, CA, United States,
     May 22-25, 2000 (2000), 249-255. Editor(s): Wickramanayake, Godage B.;
     Gavaskar, Arun R.; Chen, Abraham S. C. Publisher: Battelle Press,
     Columbus, Ohio.
     CODEN: 69AIJ2
DT
     Conference
     English
              THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 12
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```

ANSWER 3 OF 7 CAPLUS COPYRIGHT 2003 ACS L5 2000:349798 CAPLUS AN133:363157 DN Inorganic-organic copolymers - materials with a high potential for ΤI chemical modification Rose, Klaus; Amberg-Schwab, Sabine; Heinrich, Matthias ΑU Fraunhofer-Institut fur Silicatforschung, Wurzburg, D-97082, Germany CS Organosilicon Chemistry IV: From Molecules to Materials, [Lectures and SO Poster Contributions presented at the Muechner Silicontage], 4th, Muechen, Apr., 1998 (2000), Meeting Date 1998, 613-619. Editor(s): Auner, Norbert; Weis, Johann. Publisher: Wiley-VCH Verlag GmbH, Weinheim, Germany. CODEN: 68 ZMAL DTConference; General Review English THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 9 ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 4 OF 7 CAPLUS COPYRIGHT 2003 ACS L5 1999:99321 CAPLUS ΑN DN 130:238192 Ceramers based on crosslinked epoxy resins-silica hybrids: low surface TIenergy systems Mascia, L.; Tang, T. ΑU Institute of Polymer Technology and Materials Engineering, Loughborough CS University, Loughborough, LE11 3TU, UK Journal of Sol-Gel Science and Technology (1998), 13(1/2/3), 405-408 SO CODEN: JSGTEC; ISSN: 0928-0707 Kluwer Academic Publishers PB Journal DTEnglish LA THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 7 ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 5 OF 7 CAPLUS COPYRIGHT 2003 ACS L5 1998:588332 CAPLUS AN DN 129:281577 Schnell gel: rapid formation of low density gels from a TΙ tetra(fluoroalkoxy)silane Sharp, Kenneth G. ΑU Central Research, DuPont Co., Wilmington, DE, 19880-0323, USA CS Materials Research Society Symposium Proceedings (1998), 520 (Nanostructured Powders and Their Industrial Applications), 123-135 CODEN: MRSPDH; ISSN: 0272-9172 PΒ Materials Research Society Journal DTLA English THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 24 ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 6 OF 7 CAPLUS COPYRIGHT 2003 ACS L5 AN1989:633699 CAPLUS 111:233699 DN Perfluorinated-ionomer-membrane-based microcomposites. Silicon TΙ oxide filled membranes ΑU Mauritz, K. A.; Storey, R. F.; Jones, C. K. Dep. Polym. Sci., Univ. South Mississippi, Hattiesburg, MS, 39406-0076, CS USA ACS Symposium Series (1989), 395 (Multiphase Polym.: Blends Ionomers), SO 401-17 CODEN: ACSMC8; ISSN: 0097-6156 Journal DTLA English L5 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2003 ACS

1987:555099 CAPLUS ΑN 107:155099 DN Investigation by pyrolysis-gas chromatography of the composition of ΤI multicomponent polymeric microheterogeneous systems based on some vinyl Shadrina, N. E.; Dmitrenko, A. V.; Pavlova, V. F.; Ivanchev, S. S. ΑU Plastpolym. Okhta Res. Prod. Assoc., Leningrad, USSR CS Journal of Chromatography (1987), 404(1), 183-95 SO CODEN: JOCRAM; ISSN: 0021-9673 DТ Journal English LA L5 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2003 ACS 2000:349798 CAPLUS ΑN DN 133:363157 Inorganic-organic copolymers - materials with a high potential for TΙ chemical modification Rose, Klaus; Amberg-Schwab, Sabine; Heinrich, Matthias ΑU Fraunhofer-Institut fur Silicatforschung, Wurzburg, D-97082, Germany CS Organosilicon Chemistry IV: From Molecules to Materials, [Lectures and SO Poster Contributions presented at the Muechner Silicontage], 4th, Muechen, Apr., 1998 (2000), Meeting Date 1998, 613-619. Editor(s): Auner, Norbert; Weis, Johann. Publisher: Wiley-VCH Verlag GmbH, Weinheim, Germany. CODEN: 68ZMAL DT Conference; General Review LA English 36-0 (Physical Properties of Synthetic High Polymers) CC A review with 9 refs. The surface properties of coatings derived from AΒ inorg.-org. copolymers were adjusted by the proper choice of monomeric organoalkoxysilanes of the general type R'nSi(OR)4-n (n = 1 or 2). Special compds. with functional groups in R' were incorporated into an inorg. backbone via hydrolysis and condensation reactions during sol-gel processing forming an inorg.-org. hybrid material. Perfluorinated alkyl chains in R' reduce the surface energy, thus facilitating anti-adhesive behavior of the resulting coating against polar and nonpolar substances. Due to the presence of ionic compds., e.g. ammonium moieties, the sp. surface resistance is decreased from 1015 to 108 .OMEGA.. Thus elec. charging of the surface is inhibited and the attraction of dust particles is avoided. For a special application in sensor technol. a polyacryloxysiloxane based coating modified with secondary amines is used as a CO2-sensitive layer on silica optical fibers. The reaction of amino groups with CO2 can be detected by optical means. ST review inorg org polymer chem modification Polysiloxanes, miscellaneous ΙT Polysiloxanes, miscellaneous RL: MSC (Miscellaneous) (fluorine-contq.; inorg.-org. copolymers with high potential for chem. modification) Fluoropolymers, miscellaneous Fluoropolymers, miscellaneous ΙT RL: MSC (Miscellaneous) (polysiloxane-; inorg.-org. copolymers with high potential for chem. modification) Hybrid organic-inorganic materials ΙT (siloxane-based; inorg.-org. copolymers with high potential for chem. modification) THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT RF. (1) Brinker, C; Sol-Gel Science, The Physics and Chemistry of Sol-Gel Processing 1990 (2) Gauglitz, G; Nachr Chem Tech Lab 1995, V43, P316 CAPLUS (3) Kochem, K; Kunststoffe 1992, V82, P575 CAPLUS (4) Matejec, V; Sens Act B 1997, V38-39, P438

(5) Novak, B; Adv Mater 1993, V5, P6 (6) Owen, M; Ind Eng Chem Prod Res Dev 1980, V19, P97 CAPLUS (7) Rose, K; J Sol-Gel Sci Technol 1998, V13, P729 CAPLUS (8) Schubert, U; Chem Mater 1995, V7, P2010 CAPLUS (9) Yoshida, Y; Chem Lett 1984, P1571 CAPLUS L5 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2003 ACS 1998:588332 CAPLUS AN DN 129:281577 Schnell gel: rapid formation of low density gels from a TΙ tetra(fluoroalkoxy)silane Sharp, Kenneth G. ΑIJ Central Research, DuPont Co., Wilmington, DE, 19880-0323, USA CS SO Materials Research Society Symposium Proceedings (1998), 520 (Nanostructured Powders and Their Industrial Applications), 123-135 CODEN: MRSPDH; ISSN: 0272-9172 PΒ Materials Research Society DT Journal LA English CC 66-4 (Surface Chemistry and Colloids) Section cross-reference(s): 78 AΒ A new family of simple precursors to silica gel has been developed. The gel precursors are tetra(polyfluoroalkoxy)silanes, the prototype being Si(OCH2CF3)4. Formation of transparent monolithic gels with no added catalyst can be six orders of magnitude faster than comparable reactions of Si(OCH2CH3)4 [TEOS]. Extremely low d. gels can be generated in minutes at concns. at which TEOS does not gel at all. sizes in the wet gels were estd. from hydrodynamic relaxation in a beam-bending expt. on cylindrical logs. In a gel at 1% solids, the pore size was approx. 100 nm. Monolithic gels can be created at concns. at least as low as 0.1% solids and have higher moduli than predicted. NMR and GC/IR evidence indicates extremely facile hydrolysis and condensation pathways and very few silanol or cyclic intermediates in the sol. The chem. can also be conducted in perfluorinated solvents, enabling synthesis of silica/fluoropolymer nanocomposites. tetrafluoroethoxysilane prepn gelation hydrolysis condensation STΤТ Gelation Sol-gel transition (rapid formation of low d. gels from tetra(fluoroalkoxy)silane) IT Condensation reaction Hydrolysis Pore size Xerogels (rapid formation of low d. gels from tetra(fluoroalkoxy)silane in relation to) ΙT 338-39-6P, Silicic acid (H4SiO4), tetrakis(2,2,2-trifluoroethyl) ester RL: PEP (Physical, engineering or chemical process); PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); PROC (Process); RACT (Reactant or reagent) (rapid formation of low d. gels from tetra(fluoroalkoxy)silane) IT75-89-8, 2,2,2-Trifluoroethanol 10026-04-7, Silicon tetrachloride RL: RCT (Reactant); RACT (Reactant or reagent) (rapid formation of low d. gels from tetra(fluoroalkoxy)silane) 597-52-4, Triethylsilanol ΙT RL: RCT (Reactant); RACT (Reactant or reagent) (rapid formation of low d. gels from tetra(fluoroalkoxy)silane in relation to) THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 24 RE (1) Acker, E; J Colloid Interface Sci 1970, V32, P41 CAPLUS (2) Brinker, C; J Non-Cryst Solids 1988, V100, P31 CAPLUS (3) Brinker, C; Sol-gel Science 1990 (4) Colby, M; J Non-Cryst Solids 1988, V99, P129 CAPLUS (5) Coltrain, B; Ultrastruct Process Adv Mater, Int Conf Ultrastruct Process

Ceram 1992

- (6) Delattre, L; Mater Res Soc Symp Proc 1994, V346, P365 CAPLUS
- (7) Eaborn, C; Organosilicon Compounds 1960
- (8) Fricke, J; Mater Eng (N Y) 1994, V8, P311 CAPLUS
- (9) Gottardi, V; J Non-Cryst Solids 1984, V63, P71 CAPLUS
- (10) Hrubesh, L; Mater Res Soc Symp Proc 1990, V180, P315 CAPLUS
- (11) Jones, W; J Non-cryst Solids 1988, V101, P123 CAPLUS
- (12) Kelts, L; Mater Res Soc Symp Proc 1988, V121, P519 CAPLUS
- (13) Kozuka, H; Chem Mater 1989, V1, P398 CAPLUS
- (14) Michalczyk, M; US 5726247 CAPLUS
- (15) Rabinovich, E; Materials Research Soc Better Ceramics through Chemistry II 1986, V73, P251 CAPLUS
- (16) Scherer, G; Faraday Discuss 1995, V101, P225 CAPLUS
- (17) Scherer, G; J Non-Cryst Solids 1989, V108, P18 CAPLUS
- (18) Scherer, G; J Non-Cryst Solids 1992, V142, P18 CAPLUS
- (19) Schmidt, H; J Non Cryst Solids 1985, V73, P681 CAPLUS
- (20) Schmidt, H; J Non-Cryst Solids 1984, V63, P1 CAPLUS
- (21) Sharp, K; J Sol-Gel Sci Technol 1994, V2, P35 CAPLUS
- (22) Tillotson, T; J Non-Cryst Solids 1992, V145, P44 CAPLUS
- (23) Woignier, T; J Non-Cryst Solids 1987, V93, P17 CAPLUS
- (24) Woignier, T; Mater Res Soc Symp Proc 1988, V121, P697 CAPLUS